



## DN9630

AES50 to USB 2.0 Converter with up to 48 Bidirectional Channels

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**EN Important Safety Instructions**

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**PT** Instruções de Segurança  
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# 1. Introduction

## Welcome!

Thank you for purchasing the DN9630 AES50 to USB 2.0 Converter!

The DN9630 provides a multichannel interface between AES50 networks and your computer.

Once the DN9630 is connected to a computer it will appear as a normal soundcard on your Mac or PC.

## Features

- AES50 to USB 2.0 converter for simultaneous computer audio recording and playback
- Up to 48 bidirectional channels @ 48 kHz and 24 bidirectional channels @ 96 kHz
- Switchable 48 kHz and 96 kHz sample rate operation
- Operates from incoming AES50 clock
- Powered via USB 2.0 interface
- Native Core Audio\* driver support in Mac OS X\*, software drivers available for Windows\* PC
- LED indicators monitor network activity and speed
- Compact and rugged design with durable aluminium extrusion casing
- 10-Year Warranty Program\*
- Designed and engineered in the U.K.

\*Mac and OS X are trademarks of Apple Inc. Windows is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.

## About this manual

This is the operation manual for the DN9630 AES50 to USB 2.0 Converter. This manual is intended to help get your unit installed and in operation as quickly as possible by giving you unpacking, installation, connection, setting up and operating instructions. To help familiarise you with the DN9630, there is a description of the front and rear panels, along with easy-to-follow user instructions.

# 2. Getting Started

This section shows you how to unpack, install, connect up, switch on and configure the DN9630 AES50 to USB 2.0 Converter.

## Unpacking

Carefully unpack your DN9630 unit. Then, inspect the DN9630 unit carefully for any signs of damage that may have occurred during transit, and then notify the courier immediately if you do discover any damage.

Check the contents of your DN9630 unit equipment package. If there are any parts missing, incorrect or faulty, please contact your local distributor or KLARK TEKNIK at the address at the front of this manual.

Please retain the original packing in case you should need to return the equipment to the manufacturer or supplier, or transport or ship the unit later.

**Before installing, setting up or operating this equipment, make sure you have read and fully understand all of the "IMPORTANT SAFETY INSTRUCTIONS" at the front of this document.**

## Installation

Before installing and operating this equipment, make sure it is correctly connected to the protective earth conductor of the mains voltage supply.

Ideally a cool area is preferred, away from power distribution equipment or other potential sources of interference.

Do not install the equipment in places of poor ventilation.

Do not install this equipment in a location subjected to excessive heat, dust or mechanical vibration. Allow for adequate ventilation around the equipment. Whenever possible, keep the equipment out of direct sunlight.

### Minimum Hardware:

Windows-based application	<ul style="list-style-type: none"> <li>• Core 2 Duo CPU, 2 GHz</li> <li>• Ethernet port</li> <li>• 1 GB RAM</li> </ul>
Mac	<ul style="list-style-type: none"> <li>• 1.5 GHz CPU</li> <li>• Ethernet port</li> <li>• 512 MB RAM</li> </ul>

### Recommended Operating Systems:

Windows	<ul style="list-style-type: none"> <li>• Windows 7, 32-bit or 64-bit</li> <li>• Windows 8, 32-bit or 64-bit</li> </ul>
Mac	<ul style="list-style-type: none"> <li>• 10.8 Mountain Lion</li> </ul>

## Power

The DN9630 is powered via USB from a computer USB connection.

Make sure the plug fitted on the supplied USB cable is securely fitted to the USB port on the unit. When fitting or removing a plug, always hold the plug itself and never use the cable, as this may damage it. Never insert or remove an electric plug with wet hands.

## Handling the equipment

When lifting or moving the equipment, always take its size and weight into consideration.

Completely isolate the equipment electrically and disconnect all cables from the equipment before moving it.

## Driver Installation (Windows)

1. Download the latest DN9630 Windows driver from the Klark Teknik website
2. Unzip the downloaded file
3. Connect the DN9630 to your PC via USB
4. Run the setup.exe file and follow the on screen instructions

## Electric fields

**In accordance with Part 15 of the FCC Rules & Regulations, "... changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment."**

Should this product be used in an electromagnetic field that is amplitude modulated by an audio frequency signal (20 Hz to 20 kHz), the signal to noise ratio may be degraded. Degradation of up to 60 dB at a frequency corresponding to the modulation signal may be experienced under extreme conditions (3 V/m, 90% modulation).

## Connecting up

The DN9630 unit uses the following leads and connectors:

### Digital Connections:

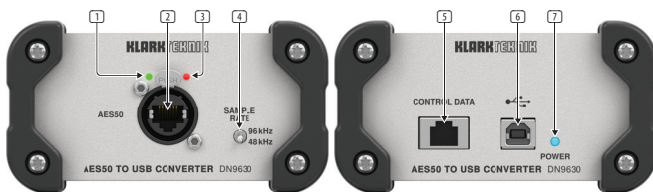
AES50 - Neutrik etherCON

USB - USB 2.0, B-type

### Power Connection:

USB 2.0, B-type

### 3. Front Panel



1. **Green AES50 status LED** indicates AES50 synchronisation
2. **AES50** connection compatible with Neutrik etherCON.
3. **Red AES50 status LED** indicates an error with the port connection when lit.
4. **Sample Rate** switch selects between 96 kHz and 48 kHz sample rates.
5. **Control Data** for potential future expansion
6. **USB input** transfers audio data between computer and the DN9630. The USB connection also supplies power to the unit.
7. **Power LED** lights to indicate the unit is powered on.

### 4. Operation

Before applying power to the DN9630 set the sample rate to match that of the AES50 enabled device it will be connected to. Then plug in the USB cable. The device will appear like a normal soundcard in your audio application and you can configure according to the applications instructions. Connect the AES50 and wait for it to synchronise.

Once this is done the DN9630 is ready to be used for recording or playback.

### 5. Specifications

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#### Connectors

AES50	etherCON x 1
USB	USB 2.0 x 1
Control Data	RJ45 x 1

#### Input/Output

Channels of input/output @ 48 kHz	48 bidirectional
Channels of input/output @ 96 kHz	24 bidirectional
Sample rates	48 kHz / 96 kHz, selectable
Sample word length	24-bit
Clock synchronization	External

#### Power

Connection	Remotely powered via USB 2.0
Consumption	<2.5 W

#### Dimensions

Height	64 mm (2.5")
Width	118 mm (4.6")
Depth	152 mm (6.0")

#### Weight

Net	0.5 kg (1.1 lbs)
Shipping	0.55 kg (1.2 lbs)

## Other important information

### EN Important information

#### 1. Register online.

Please register your new MUSIC Tribe equipment right after you purchase it by visiting [klarkteknik.com](http://klarkteknik.com). Registering your purchase using our simple online form helps us to process your repair claims more quickly and efficiently. Also, read the terms and conditions of our warranty, if applicable.

**2. Malfunction.** Should your MUSIC Tribe Authorized Reseller not be located in your vicinity, you may contact the MUSIC Tribe Authorized Fulfiller for your country listed under "Support" at [klarkteknik.com](http://klarkteknik.com). Should your country not be listed, please check if your problem can be dealt with by our "Online Support" which may also be found under "Support" at [klarkteknik.com](http://klarkteknik.com). Alternatively, please submit an online warranty claim at [klarkteknik.com](http://klarkteknik.com) BEFORE returning the product.

### ES Aspectos importantes

**1. Registro online.** Le recomendamos que registre su nuevo aparato MUSIC Tribe justo después de su compra accediendo a la página web [klarkteknik.com](http://klarkteknik.com). El registro de su compra a través de nuestro sencillo sistema online nos ayudará a resolver cualquier incidencia que se presente a la mayor brevedad posible. Además, aproveche para leer los términos y condiciones de nuestra garantía, si es aplicable en su caso.

**2. Averías.** En el caso de que no exista un distribuidor MUSIC Tribe en las inmediaciones, puede ponerse en contacto con el distribuidor MUSIC Tribe de su país, que encontrará dentro del apartado "Support" de nuestra página web [klarkteknik.com](http://klarkteknik.com). En caso de que su país no aparezca en ese listado, acceda a la sección "Online Support" (que también encontrará dentro del apartado "Support" de nuestra página web) y compruebe si su problema aparece descrito y solucionado allí. De forma alternativa, envíenos a través de la página web una solicitud online de soporte en periodo de garantía ANTES de devolvernos el aparato.

### FR Informations importantes

**1. Enregistrez-vous en ligne.** Prenez le temps d'enregistrer votre produit MUSIC Tribe aussi vite que possible sur le site Internet [klarkteknik.com](http://klarkteknik.com). Le fait d'enregistrer le produit en ligne nous permet de gérer les réparations plus rapidement et plus efficacement. Prenez également le temps de lire les termes et conditions de notre garantie.

**2. Dysfonctionnement.** Si vous n'avez pas de revendeur MUSIC Tribe près de chez vous, contactez le distributeur MUSIC Tribe de votre pays : consultez la liste des distributeurs de votre pays dans la page "Support" de notre site Internet [klarkteknik.com](http://klarkteknik.com). Si votre pays n'est pas dans la liste, essayez de résoudre votre problème avec notre "aide en ligne" que vous trouverez également dans la section "Support" du site [klarkteknik.com](http://klarkteknik.com). Vous pouvez également nous faire parvenir directement votre demande de réparation sous garantie par Internet sur le site [klarkteknik.com](http://klarkteknik.com) AVANT de nous renvoyer le produit.

### DE Weitere wichtige Informationen

**1. Online registrieren.** Bitte registrieren Sie Ihr neues MUSIC Tribe-Gerät direkt nach dem Kauf auf der Website [klarkteknik.com](http://klarkteknik.com). Wenn Sie Ihren Kauf mit unserem einfachen online Formular registrieren, können wir Ihre Reparaturansprüche schneller und effizienter bearbeiten. Lesen Sie bitte auch unsere Garantiebedingungen, falls zutreffend.

**2. Funktionsfehler.** Sollte sich kein MUSIC Tribe Händler in Ihrer Nähe befinden, können Sie den MUSIC Tribe Vertrieb Ihres Landes kontaktieren, der auf [klarkteknik.com](http://klarkteknik.com) unter „Support“ aufgeführt ist. Sollte Ihr Land nicht aufgelistet sein, prüfen Sie bitte, ob Ihr Problem von unserem „Online Support“ gelöst werden kann, den Sie ebenfalls auf [klarkteknik.com](http://klarkteknik.com) unter „Support“ finden. Alternativ reichen Sie bitte Ihren Garantieanspruch online auf [klarkteknik.com](http://klarkteknik.com) ein, BEVOR Sie das Produkt zurücksenden.

### PT Outras Informações importantes

**1. Registre-se online.** Por favor, registre seu novo equipamento MUSIC Tribe logo após a compra visitando o site [klarkteknik.com](http://klarkteknik.com). Registrar sua compra usando nosso simples formulário online nos ajuda a processar seus pedidos de reparos com maior rapidez e eficiência. Além disso, leia nossos termos e condições de garantia, caso seja necessário.

**2. Funcionamento Defeituoso.** Caso seu fornecedor MUSIC Tribe não esteja localizado nas proximidades, você pode contatar um distribuidor MUSIC Tribe para o seu país listado abaixo de "Suporte" em [klarkteknik.com](http://klarkteknik.com). Se seu país não estiver na lista, favor checar se seu problema pode ser resolvido com o nosso "Suporte Online" que também pode ser achado abaixo de "Suporte" em [klarkteknik.com](http://klarkteknik.com). Alternativamente, favor enviar uma solicitação de garantia online em [klarkteknik.com](http://klarkteknik.com) ANTES da devolução do produto.

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## FEDERAL COMMUNICATIONS COMMISSION COMPLIANCE INFORMATION



Responsible Party Name: **MUSIC Tribe Brands UK Ltd.**

Address: **Klark Industrial Park,  
Walter Nash Road,  
Kidderminster, Worcestershire,  
DY11 7HJ United Kingdom**

Phone Number: **+44 1562 732290**

### DN9630

complies with the FCC rules as mentioned in the following paragraph:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This equipment complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

This product conforms with essential requirements of the EMC Directive 2014/30/EU, the LV Directive 2014/35/EU, RoHS Directive 2011/65/EU and WEEE Directive - 2012/19/EU.

### Warning:

Operation of this equipment in a residential environment could cause radio interference.





